UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION I

Environmental Services Division 60 Westview Street, Lexington, MA 02173-3185

LCRA RECORDS

MEMORANDUM

DATE: August 10, 1988

SUBJ: Case #9657 - Ciba-Geigy - RCRA Program

Kemron Environmental Services (LAB)

Seven Soil Samples for VOA, BNA & Pesticides Samples ID AK603 - AK609. AK605 & AK606 are

field duplicates. AK609 is a lab prepared artificial

soil blk.

FROM: Elio Goffi

ESD-QA

TO: Dennisses Valdes

ESD-Water Division

The package contained all the essential information required to assess the accuracy and precision of the results. The only exceptions were form I-SV-1 and SV-2 sample data reporting sheets which documented 1000 gms of soil was extracted. This was in error. The RIC documented 30 gms soil was extracted. Kemron was called and corrected sheets were submitted.

VOA ORGANIC ANALYSES

Nothing Significant to Report

Table I (VOA) summarizes the validation recommendations which were based on the following information:

Holding times, BFB performance, surrogates spike recoveries, matrix spike recoveries, matrix spike duplicates and field precision data were reviewed and all contractual criteria were met. Two lab blks (VBLKE23 and VBLKE25) reported 4 and 5 ppb of methylene chloride and 2 ppb 2-Butanone. Action: Reject methylene chloride ≤ 40 ppb and 2-Butanone ≤ 10 ppb.



The Northrop Artificial soil blk (AK609) was contaminated and not considered in the data review. Initial and continuing calibrations had % RSD and %D ≥ 50% for Acetmone, Bromoform, 2-Butanone, and 2-Hexanone. Action: J positive results and UJ nondetects.

EXTRACTABLE ORGANIC ANALYSIS (& N A)

Few semivolatiles compounds were detected of non-significant amounts.

All reported compounds are flagged "J" and are less than the CRQL (Contract Required Quantitation Limits). At these quantitative levels, some mass spectra are borderline acceptance.

The only significant quantitation reported was bis (2-Ethylhexyl) phthalate in sample AK605 (2900 ppb). This was probably a lab contaminant. AK605 and AK606 were field blks. AK606 reported bis (2-ethylhexyl)phthalante undetected.

Table II. (Extractable organic analysis) summarizes the validation recommendations which were based on the following information:

Holding time, DFTPP performance results, surrogate spike recoveries, matrix spike recoveries, matrix spike duplicate results (exception: pyrene 56% RSD:no action) and field precision results were reviewed and all contractual criteria were met. The BNA BLK #SBLKS23 was free of all contaminants. The CRQL were reported correctly. Semi-volatile initial and continuing calibrations were acceptable and no action necessary. Calculation checks were performed on BNA analyses and the reported results were reproducible. The following spectra were of poor quality and should be rejected; samples AK606, AK607 Benzo (K) fluoranthene and sample AK607 Indeno (123-cd) pyrene.

PESTICIDE ANALYSES

A significant amount (73 ppb) of 4,4' DDE was reported in sample AK603; and lesser amounts in samples AK605 and AK606 which reported 18 and 25 ppb of 4,4' DDT respectively. All other pesticides quantitations were at non-significant levels, (less than CRQL).

Table III summarizes the validation recommendations which were based on the following information:

windows, DDT/Endrin degradation, DBC retention time, initial calibration linearity, analytical sequence, and continuing calibration data were all reviewed and all contractual criteria were met.

The soil pesticide surrogate recovery was acceptable except in sample AK608 and AK608 RE. The Dibutylchlorendate co-eluded and over recovered.

The matrix spike and matrix spike duplicate recoveries were within QC limits.

With the exception of the 3 reported compounds above, all other reported compounds were J'd or rejected due to poor chromatography.

CC: C. Wood, Chief, Quality Assurance R. Lind, RSCC, RCRA Program.

Soils

CLP VOLATILE ORGANIC ANALYSIS
AQUEOUS-ANALYTICAL RESULTS

(pp)

ry/Kg

Tuble # I

| Sample Location | | 88 226 | 88 223 | 8822 | 48.278 | 6) 560 | 08 3 0 | 88562 | | | | |
|--|-------------|--------------|--------------|-----------|------------|-----------|------------------|--|--------------|----|--------------|--|
| ample Number | | 16/19/0 | 1911920 | 15 11021 | 1/8//022 | 172 11972 | /%// <i>9</i> 34 | 1111721 | | | | |
| Traffic Report Number | | AK 603 | AK 604 | 4K605 | AK 606 | 15607 | AKLOS | Mrech | | | | |
| Remarks | | | | Dups | Ĭ | | | | | | | l |
| | Detection | | | | | | | | | | | |
| Compound | Limit (ppb) | | | | | | | - ` | | | | |
| Chloromethane | | 13 U | 150 | ט זו | 110 | 124 | 120 | | | | | |
| bromomethane | | 130 | 15 U | 11 0 | 11 0 | 100 | 120 | ├──╊ ──╅ | | | | |
| Vinyl Chloride | | 13 U | ISU | 11 1 | 110 | 120 | | | | | | |
| Chloroethane | | 13 V | Ir U | 110 | 110 | 120 | 120 | | | | | |
| Methylene Chloride | | 32 R | 35 R | FR | | 18 B | 3/B | 14 | | | | |
| Acetone | all UJ | | | DI 1 6 N3 | 11 11 11 | 124 103 | | 5 69 | | | | |
| Carbon Disulfide | | 60 | 10 | 60 | 60- | 7 4 | 6 0 | | | —— | | |
| 1, I-Dichloroethene⊲ | | <u> </u> | 10 | 4 | 60 | 6 0 | 60 | } ∦—— } | | | | |
| I, I-Dichloroethane | | 40 | 70 | 120 | 60 | L | | | | | | |
| Coal-1,2-Dichloroethene | | 60 | 124. | 40 | 7 0 | 70 | 1 to U | | | | | |
| Chloroform | | 60 | 70 | 1 × V. | 40 | <u> </u> | 63 | | i | | | |
| 1,2-Dichloroethane | | 60 | 10 | 60 | 60 | | 12 03 | 67 | | | | |
| 2-Butanone | | 1303 | 1503 | 1102 | 403 | 1703 | ++ | | | | | |
| I, I, I-Trichloroethane | | 160 | 70 | 64 | 70 | 40 | 16 C | 1-7-1 | | | | |
| Carbon Tetrachloride | <u> </u> | 60 | 70 | 40 | 60 | 60 | 60 | | | | | |
| Vinyl Acetate | | 130 | ITU | 1/ V | II V | 120 | 12 4 | | | | | |
| Bromodichloromethane | . <u> </u> | 60 | 70 | 700 | <u>i u</u> | 160 | 68 | | | | | |
| 1,1,2,2-Tetrachloroethane | | 60 | 10 | 40 | 40 | 40 | | | | | | |
| 1,2-Dichloropropane | | 60 | 1 <u>7</u> U | 40. | 40 | 40 | 40 | | | | | |
| trans-1,3-Dichloropropene | | 60 | 70 | 41 | 44 | 60 | 60 | | | | | ┼── |
| Trichloroethene | | 16U | 7 0 | 4 1 | 40 | 40 | 40 | - | | | | |
| Dibromochloromethane | 1 | 60 | 77 | 40 | 40 | 60 | 60 | 1-1-0-1 | | | } | |
| 1,1,2-Trichloroethane | | 60 | 11 | 47 | 40 | 160 | 60 | 170 | | | | |
| Benzene | | 60 | 1 V. | 40 | YU | 60 | 40 | 1 | | | | ├ |
| Cis-1,3-Dichloropropene | | 60 | 70 | 60 | WU | 60 | VI | | | | | ↓ |
| 2-Chloroethylvinyl ether | | <u> </u> | 1 | | | | | <u> </u> | | | | ↓ |
| Bromotorm | | 603 | 705 | 603 | 003 | 603 | 603 | | | | | |
| 2-Hexanone | | 1/303 | 15 12 | 11103 | 1102 | 1205 | 1205 | | | | ļ | ↓ |
| 4-Methyl-2-Pentanone | | 130 | 180 | 11 12 | 11 0 | 12.0 | 120 | | | | } | |
| Tetrachloroethene | | 60 | 70 | 60 | 60 | 700 | 60 | | | | | ↓ |
| Toluene | | 60 | フリ | 40 | 60 | 60 | 00 | | | | | ↓ |
| Chlorobenzene | | 160 | 10 | UU | VU | 60 | 60 | | | | <u> </u> | |
| Ethylbenzene | | 60 | 10 | 40 | 40 | UU | V 3 | | | | ļ | |
| Styrene | | 70 | 17 | 60 | 40 | 40 | 60 | | | | | |
| Total Xylenes | | 60 | 70 | 64 | 00 | 60 | 60 | | | ļ | · · | |
| Total volatile organic concentration (ppb) | | | | | | | | | | | | <u> </u> |
| Concentration/Dilution factor | i | 1 | ! | | | 1 | 1 | / | | | | |
| Date received by lab | t | 5/20/98 | 15/20 | 5/20 | 5/20 | 5/20 | 5/20 | 1/W | | | | \mathbf{I}^{-} |
| Date of analysis | | 5/25/48 | | 1/23 | 1125 | 9125 | 1/25 | 1/63 | | | | |
| Instrument used for analysis | | | 1 7 | | | 1_/ | | | | | <u> </u> | |
| Notes MOISTURE | • | 22 | 33 | 10 | 11 | 15 | - 17 | 0 | | | | |

Compound was not detected.

Quantitation is approximate due to limitations identified during the

quality control review (data validation).

Value is rejected due to other contractual criteria examined during the quality control review.

•• Value is rejected due to blank contamination identified during the quality control review.

CLP EXTRACTABLE ORGANIC ANALYSIS
AQUEOUS ANALYTICAL RESULTS
SOILS (ppb) My Kg

FIELDURS

ES.D.

| 50113 | | | | • |)) | ب | | | | | | 10 ^{LB} | ;,\ | | | | | | _ |
|---|------------------|---------------|--|------------------|--|------------------|--|-----------------|----------------|------------------|----------------|------------------|--------------------|--------------|--|---|---------------|------------------|----------|
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| \a\d- | 188826 | A 4 | - जना | 0 V S S | 8 | 1850 | 59 4 | 1850 | 00 8 | 85 | 61 8 | 2119 | 23 | | | | | | - |
| | 188556 | 7 | 420 | 19 114 | 12/ | 8115 | 122-1 | 811 | 9231 | 4119 | 24/ | 16 P | VA | | | | | | ┥. |
| ampling Location | 1811919 AK103 | $\frac{1}{N}$ | 200 | AK 6 | 05 | 4K C | 006 | <u>4 K (</u> | <u>.07 </u> 2 | 44 | 80X 10 | 1,, 0 | | | | 1 | | 1 | - 1 |
| ample Number | 14K/05 | 7 N | | | | | | | , t | | - 1 | | \ | | | | | | ヿ |
| raffic Report Number | MY/Kg | | 1 | | | | | | | | | | | | | 1 | | | - 1 |
| lemarks | - | | | | | _ | - 1 | | 1 | | 1 | _ | | | | | | 1 | \neg |
| Detection | 1 | | | | | | | | + | | | | | 1 | 1 | 1 | | 1 | 1 |
| semivolatile Compound Limit (ppb) | | | | | l | | l | | ł | | - 1 | | 1 | | 1 | ł | | | _ |
| enitvois.no | i | | | | 1 | | 1 | | - 1 | | | × 11 . | | | | | | | |
| | · | <u> </u> | | | | 277 | র তা | 39 | ه ک | 400 | 0 0 | 330 | , u - | | | | | | |
| N-Nitrosedimethylemine | 420 U | 4 | 900 | 370 | | 23 | | | _ | | | | | | 1 | | | | <u> </u> |
| Phenol | _ | ↓ _= | | 122 | × 11 | 37 | οU | 39 | ں ہ | 400 | <u> </u> | 37 | | | | | | | _ |
| Aniline | 4200 | ↓ | | 13.0 | <u></u> | 1 | | | | | | -+- | | | | | | _ - | |
| his (2-Chloroethy))Ether | 420 11 | ├ ─ | | + | Γ | | | L | ↓ | | | - | | | | | | | |
| 2-Chlorophenol | - '' | + | | + | T | | | | ↓ | | ┝╾╌┪ | -+ | | | | | | | |
| 1, 3-Dichlorobenzene | | + | | + | | | | ↓ | | ├ ── | ├ | -+ | | | 1 | | | | |
| 1, 4-Dichlorobenzene | | | | +- | | | | - | | | | 1 | | | | } | | | |
| Benzyl Alcohol 1, 2-Dichlorobenzene | | +- | | 1 | | | <u> </u> | ₩- | | + | | | | | | | | | |
| 1, 2-Dichlorobenzeno | | +- | | | | | <u> </u> | | | ┼ | | | | | | | | | |
| 2-Methylphenol bis(2-chloroisopropyl)Ether | | | | | | 1_ | | | | + | | | | | | | | | |
| 4 44 - 4 by lobe 00 l | - 1 | _ | | | | | | ┼─ | | +- | | | | | | | | | |
| N-Nitroso-Di-n-Propylamine | | - | 1 | | 1 | | | + | + | +- | | \Box | | | | | | | |
| Hexachloroe thane | | \neg | $T_{}$ | | ↓ | 4- | | | + | | | \Box | | | | | | | |
| Nitrobenzene | | | | | 1/ | | /- | +- | 1 / | | T | 1-4 | | | - | | | | |
| Isophorone | 11 | | سراد | | -Y- | | V- | _ | - | | Ψ | 1.7 | 00 U | | | | | | |
| 2-Nutrophenol | 1 | | <u> </u> | _ . | 600 | ., , | 806 | 3 7 | 9001 | 2/7 | 900 U | 119 | 300 | | | | | | |
| 2. 4-Dimethylphenoi | 2100 | | 30 | 317 | 170 170 | # 1 | 370 | J : | 390 1 | 1 4 | 400 U | 4 | 300 | | _ | | I | | |
| ACID | 420 | بلك | 440 | - - | <i></i> | - | 2.4 | \top | | | | + | | | | | | | |
| hist-2-Chloroethoxy/Metital | /1 | | | _+- | | _ | | | | | | -+ | | 1 | | | | | |
| a h Dichlorophenol | /1 | | | | | _ | | | | _ | | | | 1 | | | | | |
| 1, 2, 4-Trichlorobenzene | 11 | | - - | | - | | | | | | | +- | | | | | | | |
| Naphthalene | ,, | | | | | $\neg \vdash$ | | | | | | | | | | | _ | | |
| 4-Chloroaniline | ,, | | | | + | | | | | | } - | -+- | _ | | | | | | |
| Hexachlorobutadiene 4-Chloro-3-Methylphenol | 43 | -+ | | | | | | | | | | - | | Τ | | | | | |
| 4-Chloro-3-Metry, | +1 | -+ | $\overline{}$ | _ | 14 | | 1/ | | | | -\ | 十 | V | | | | _ | | |
| 2-Methylnaphthalene Hexachlorocyclopentadiene | | | -`∀ | | V | | V | | <u> </u> | \ | 900 | 5 | 1600 | 7 | | | | | |
| 2, 4, 6-Trichlorophenol | 210 | កប | 240 | ال ہ | 1800 | | 1960 | | 340 | ~;; ; | 400 | IJ l | 330 | ــــــان | | | | | |
| 2, 4, 5-Trichlorophenol | 114 | 711 | LJA | ハリし | 370 | <u> </u> | 370 | : ! | 1900 | ٠Ť | 1900 | υL | 1600 | 니 | | | | | |
| 2-Chloronaphthalene | 010 | 201) | 246 | 00 | 1900 | - 4 | 1 A 9 | <u>, U</u> | 310 | , 0 1 | 700 | | 370 | ;} | | | _ | | |
| 2-Nutroaniline | \ Ji | 00 | 44 | 0 0 1. | 21 | | <u>-51</u> | 0 U 0 U | 390 | U | 400 | V | 3 30 | | | | _ | | |
| Dimethyl Phthalate | | 1 | . <i> </i> | 0 U | _37 | 0 0 | | الأخ | 1900 | ग | 1900 | 灲 | 1600 | _ | + | | _ | | |
| Acenaphthylene | 21 | pov | 240 | 00 | <u>/ X c</u> | _ | 11 | + | 13 | | 17 | 1 | 0 | 1 | - 1 | | - 1 | 1 | |
| 1 Nuroaniline | | て | 73 | · | 10 | 1 | , , | 1 | • - | 1 | , | - 1 | , | l | 1 | | | | |
| MODITURE | ١. | | | 1 | | | 1 | 1 | | | | + | 5/20 | | | | | | |
| | | | | 20 | 5/2 | 0 | 1/2 | | 3/2 | | 5/20 | | 3/23 | | | | | | |
| Concentration/Dilution factor | 3/ | 20 | | 13 | 3/2 | , | 7/2 | | 7/2 | | 5/23 | ┵┼ | 3/27 | | | | | | |
| Date received by lab Date sample extracted | 3/4 | - | | 28 | 1/2 | | 1/2 | | 3/2 | <i>y</i> | 8/26 | | | | | | | | |
| Date of analysis | 1/2 | | 1 1 | | | | ــــــــــــــــــــــــــــــــــــــ | | | | | | | | | | | | |

CLP EXTRACTABLE ORGANIC ANALYSIS
AQUEOUS ANALYTICAL RESULTS
(ppb)
PAGE TWO

Toble III Field pups.

| Sampling Location Sample Number Traffic Report Number | | | | | T | | T | 1 | , | T | T | 1 |
|---|------------------|----------|---------|--------|--------|--|--------------|-------------|--|--|--|--|
| Sample Number | | | | | | | | | | | | |
| Traffic Report Number | | | | I | | | | | † | | | |
| | AK 603 | AK604 | AK 605 | AK 606 | AK 607 | AKLO8 | AK 609 | | | | | |
| Remarks | | | | | | <i>y</i> .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 7 | | | †" | | |
| • | | | | | | | | 1 | ļ | 1 | i | 1 |
| | Detection | | | | | | | · | | | | |
| Semivolatile Compound | Limit-(ppb) | | | | | | | | | ļ | i | |
| | | | | | | | | | | | | |
| | ı | | | | | | , | | | | 1 | l |
| Acenaphthene | 420 U | 4100 | 370 U | 370 U | 390 U | 400 0 | 330 U | • | | } | i | |
| 2, 4-Dinitrophenol | 2100 U | 2700 U | 1800 U | 1860 U | 1900 U | 1900 U | 1600 U | | | | | f |
| 4-Nitrophenol | | 2400 V | | | 1900 U | | | | | | † · · · · · · · | |
| Dibenzofuran | 420 U | 490 U | | | 390 U | | 330 U | | | | † | |
| 2, 4-Dinitrotoluene | 420 U | 1 | 370 U | 376 U | 390 V | 4 | (| | | | | |
| 2, 6-Dinitrotoluene | 11 | | 370 U | 370 U | 3900 | 1 | | | | | | |
| Diethylphthalate * | - 11 | | 1 | 1 | 1 | | - | | | | 1 | |
| 4-Chlorophenyl-phenylether | •9 | | | | | | | | | · · · · · | 1 | |
| Fluorene | ** | V | V | V | V | | | | | | 1 | 1 |
| 4-Nitroaniline | 2100 U | 2400 J | 1800 U | 1800 U | 1900 U | 1900 U | 1600 V | | | | | |
| 4, 6-Dinitro-2-Methylphenol | 2100 U | 2400 U | 1800 7 | 1800 U | 1400 U | 1900 U | 1600 U | | | | 1 | |
| N-Nitrosodiphenylamine (1) | 420 U | 490 U | 370 U | 370 V | 340 U | 4 66 U | 330 U | | | | 1 | · · · · · · |
| 4-Bromophenyl-phenylether | 11 | | | 1 | 7 | 1 | 1 | | | | 1 | |
| Hexachlorobenzene | 11 | A | 4 | V | V | 1 | V | | | | | † |
| Pentachlorophenol | 2100 U | 2400 V | 1800 V | 18000 | 1980 U | 1900 V | 1600 U | | <u> </u> | | | |
| Phenanthrene | 903 | 140 3 | 1 495 | 515 | 755 | | 330 V | | | · | | |
| Anthracene | 420 V | 490 U | | 3700 | | 4000 | 1 | | | | | |
| Di-n-Butylphthalate | 11 | 11 | | 370 V | | 400 U | | | | | | |
| Fluoranthene | 170 3 | 250 J | 54 5 | 80 3 | 1603 | | | ! | | | | |
| Benzidine— | 490-0 | | | | | | | | | | | |
| Pyrene | 1903 | 240 T | 595 | 705 | 1407 | 1305 | | | | | | - |
| Butylbenzylphthalate | 420 U | 490 U | | 3700 | 390 U | | ─ ₩ | | | | | |
| 3, 3-Dichlorobenzidine | 250 U | | | | 780 U | | 660 U | | - | | | |
| Benzo(a)Anthracene | 61 3 | | . 370 U | | 3900 | | 3300 | · | | | | |
| bis(2-Ethylhexyl)Phthalate | 68 3 | 705 | - 3900 | 370 J | 733 | 935 | 1 | | - | | | |
| Chrysene | 975 | 130 0 | - 370U | 465 | 655 | 735 | | | | | | |
| Di-n-Octyl Phthalate | 420 U | | 7 70 U | | 390 U | 4000 | | | | | | |
| Benzo(b)Fluoranthene | 1802 | 2200 | | 1105 | 1305 | 1105 | | | - | | | |
| Benzo(k)Fluoranthene | 120 3 | 1603 | | 481 | 79 1 | 815 | | | | | | |
| Benzo(a)Pyrene | 973 | 1603 | 1 | 376 U | 73 5 | 56 3 | 1 | | | | | |
| Indeno(1, 2, 3-cd)Pyrene | | 1205 | | } | L2.K | | | | | | | |
| Dibenz(a, h)Anthracene | 420 U | 490 U | | | 3900 | 400 U | 1/ | | | | | |
| Benzo(g, h, i)Perylene | tı . | 170 5 | V | V | 867 | 406 U | V | | | | <u> </u> | |

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CLP EXTRACTABLE ORGANIC ANALYSIS AQUEQUE ANALYTICAL RESULTS

PAGE THREE

| · | | • | | | 88559 | | | | | | | ~ |
|-------------------------------|--------------------------|----------|--|--|--|--|--|--|--------------|--|--|----------|
| Sampling Location | | 88556 | 88557 | 58555 | \$155 | 88 560 | 88 261 | 56562 | | | + | 十 |
| Sample Number | | | | | ÷ | | | 10 10 10 00 | | | | 十 |
| Traffic Report Number | | AK 603 | AKLOY | AK 605 | AK 606 | AK 607 | AK 608 | A15609 | | | | + |
| Remarks | ug Kg | | | DUP- | } | | , ' | | •. | | | ı |
| | <u> </u> | <u> </u> | | 1001 | | · | | | | | | 十 |
| Semivolatile Compound | Detection Limit (ppb) | | | | | | | | | | - | + |
| Alpha-BHC | * | 210 | 12 U | 9,9 U | 9.0 U | 9.40 | ں ما9 | | | | | 4 |
| Beta-BHC | | <u> </u> | | | | | | | | | | ┪ |
| Delta-BHC | | | | | | | | | | | 1 | 寸 |
| Gamma-BHC (Lindane) | | | | | | | | · · · · · · | | | | 7 |
| Heptachlor | | 1 | | | | } }_ | | $ \psi$ | <u> </u> | | + | _ |
| Aldrin | • • | | | | - 1 | } | | | | | 1 | 7 |
| Heptachlor Epoxide | | | | <u> </u> | I W | - | 1-1/- | | | | | ヿ |
| Endosulfan I | | V | | 9,4 5 | | - 10 | · · | | | | | ┪ |
| Dieldrin | | 41 0 | 740 | 180 | 18 U | 19 0 | 190 U | | | | | ┪ |
| 4 4-DDE | | 73 | 2.75 | 10 2 | | 2.3 (| | ├ | | | | ┪ |
| Endrin | | 410 | 240 | 180 | 18 U | 190 | | | | | | ᅥ |
| Endosulfan # # II | | 11 | 11 | 18 13 | 16 U | | | | | | | ᅥ |
| 11000 | | 205 | • 1 | 4,4 R | 3.15 | 11 | | '0 | | | | ┪ |
| Endrin Aldehydo Chlorèanc | | 210 U | | 890 | 900 | 940 | 9600 | | | -1 | - | ᅥ |
| Endosulfan Sulfate | | 41 0 | | 180 | /8 U | 190 | 190 U | | ├ | - | | \neg |
| 4, 4-DDT | | 115 | | 18 | 25 | 3,95 | (1) | } | | | | |
| Methoxychlor | | 210 | | | 900 | | 960 U | | ┼ | | | |
| Endrin Ketone | | 41 0 | 240 | | 18 0 | | | | | | | - |
| Chlordane - gummb | | 5.53 | | | | | | | | | | \dashv |
| Toxaphene . | | 410 0 | 2400 | | | | | 1-A | | | | _ |
| Aroclor-1016 | | 210 U | 1200 | 891 | 90 0 | 940 | 960 U | 1 | | | | _ |
| Aroclor - 1221 | | | | | | | | | + | | | _ |
| Aroclor - 1232 | | | | | | | | . - | | | | _ |
| Aroclor-1242 | | | | | 1 | 1 | | | | | | |
| Aroclor-1248 | | V | ₩ | V | V | 1 1 | | | | | _ | |
| Aroclor-1254 | | 410 0 | 240 | | 1501 | | | \ | | | | _ |
| Aroclor - 1260 | | 71 | 11 | " | 111 | 31 | - 41 | | | | | _ |
| MOISTURE | | 22 | 33 | 10 | 11 | 15 | 17 | 0 | Ì | · · | | |
| Concentration/Dilution factor | | 2 | | 1 | 1 | 1 | 10 | 5,40 | ↓ | | | |
| Date received by lab | | 5-20-8 | | 1-20 | 5.20 | 5.10 | 13-63 | 5-23 | + | - | _ | |
| Date sample extracted | | 5-23 | 5-13 | 7,27 | 5-13 | 5-13 | | 6-4 | | | | _ |
| Date of analysis | | 6-3 | 6-3 | 6-3 | 6.3 | 16-3 | 6-3 | 1671 | | | | _ |

Notes:

Compound was not detected.

Quantitation is approximate due to limitations identified during the quality control review (data validation).

Value is rejected due to other contractual criteria examined during the quality control review.

** Value is rejected due to blank contamination identified during the quality control review.